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     FILE 'CAPLUS' ENTERED AT 10:27:48 ON 23 JUN 2008

=> s reduction and palladium
        342550 REDUCTION
        178508 PALLADIUM
L1        7151 REDUCTION AND PALLADIUM

=> s l1 and diene
         71779 DIENE
L2          26 L1 AND DIENE

=> s l2 and octadiene
          4345 OCTADIENE
L3           1 L2 AND OCTADIENE
```

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=> d bib abs

L3   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2008 ACS on STN
AN   2005:346922  CAPLUS
DN   142:411833
TI   Schiff base metal complexes for use as catalysts in organic synthesis
IN   Verpoort, Francis Walter Cornelius; Opstal, Tom
PA   Universiteit Gent, Belg.
SO   PCT Int. Appl., 94 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.        DATE
     ---------------     ----   --------    -------------------    --------
PI   WO 2005035121        A2    20050421    WO 2004-BE146          20041015
     WO 2005035121        A3    20050630
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
             TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
             AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
             EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
             SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
             SN, TD, TG
PRAI EP 2003-447257       A     20031016
     US 2003-529010P      P     20031212
OS   MARPAT 142:411833
AB   Schiff base metal complexes that are at least tetra-coordinated are useful
     as catalysts for ring-opening metathesis polymerization of cycloolefins,
     atom-transfer radical polymerization of unsatd. compds., cyclopropanation of
     styrene, oxidative cyclization of 2-aminobenzyl alc. with ketones,
     vinylation of terminal alkynes with carboxylic acids, and ring-closing
     metathesis of α,ω-dienes.  A typical complex was manufactured by
     adding a solution of thallium ethoxide in THF dropwise to a solution of
     N-(4-bromo-2,6-dimethylphenyl)-2-hydroxy-1-phenylmethaneimine (I) in THF,
     stirring 2 h, adding (p-cymene)ruthenium dichloride dimer in THF to a THF
     solution of the resulting Tl salt of I, stirring 6 h, adding a MeLi solution in
     ether to an ether solution of the resulting intermediate complex at
     0°, and slowly warming to room temperature, and stirring 4 h.


=> s palladium metal
        178508 PALLADIUM
       1842113 METAL
L4         628 PALLADIUM METAL
               (PALLADIUM(W)METAL)

=> s zero valent palladium
        217817 ZERO
         15559 VALENT
        178508 PALLADIUM
L5          48 ZERO VALENT PALLADIUM
               (ZERO(W)VALENT(W)PALLADIUM)

=> s l5 and diene
         71779 DIENE
L6           1 L5 AND DIENE
```

```
=> d bib abs

L6   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2008 ACS on STN
AN   2003:655952  CAPLUS
DN   139:323649
TI   Zero-valent palladium complexes with
     monodentate nitrogen σ-donor ligands
AU   Kluwer, Alexander M.; Elsevier, Cornelis J.; Buehl, Michael; Lutz, Martin;
     Spek, Anthony L.
CS   Institute of Molecular Chemistry, Universiteit van Amsterdam Nieuwe
     Achtergracht 166, Amsterdam, 1018 WV, Neth.
SO   Angewandte Chemie, International Edition (2003), 42(30), 3501-3504
     CODEN: ACIEF5; ISSN: 1433-7851
PB   Wiley-VCH Verlag GmbH & Co. KGaA
DT   Journal
LA   English
OS   CASREACT 139:323649
AB   Reaction of [Pd(nbd)(ma)] (ma = maleic anhydride, nbd = norbornadiene;
     prepared by a modified lit. procedure) with appropriate nitrogen ligand, L
     (NH3, pyridine, aniline, Et2NH) in dry THF at -70° to give
     [Pd(L)2(ma)] in typical yields of 65-70%.  BP86/ECP1 level MO calcns. were
     done on a number of selected [Pd(η2-C2H4)(L)2] compds. to assess the
     driving force for their formation from corresponding tris alkene derivative
RE.CNT  28    THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT


=> s palladium and diene
        178508 PALLADIUM
         71779 DIENE
L7        1824 PALLADIUM AND DIENE

=> s l7 and hexadiene
          7937 HEXADIENE
L8          95 L7 AND HEXADIENE

=> s l8 and octadiene
          4345 OCTADIENE
L9          13 L8 AND OCTADIENE

=> d 1-13 bib abs

L9   ANSWER 1 OF 13  CAPLUS  COPYRIGHT 2008 ACS on STN
AN   2006:689631  CAPLUS
DN   146:274425
TI   Efficient and selective rhodium-catalyzed hydrophosphorylation of dienes
AU   Ajellal, Noureddine; Thomas, Christophe M.; Carpentier, Jean-Francois
CS   Organometalliques et Catalyse, UMR 6226 CNRS-Universite de Rennes 1,
     Rennes, 35042, Fr.
SO   Advanced Synthesis & Catalysis (2006), 348(9), 1093-1100
     CODEN: ASCAF7; ISSN: 1615-4150
PB   Wiley-VCH Verlag GmbH & Co. KGaA
DT   Journal
LA   English
OS   CASREACT 146:274425
AB   The hydrophosphorylation of a model 1,6-diene having a terminal
     and an internal alkene function was studied.  Free radical protocols lead
     invariably to mixts. of cyclic phosphonate products, due to rapid
     cyclization of the intermediary radical species.  Rh catalysis using a
     cyclic pinacol-derived phosphonate provides an efficient technique for the
     highly selective (>99%) hydrophosphorylation at the terminal alkene
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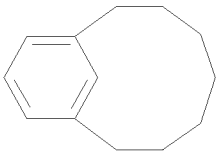
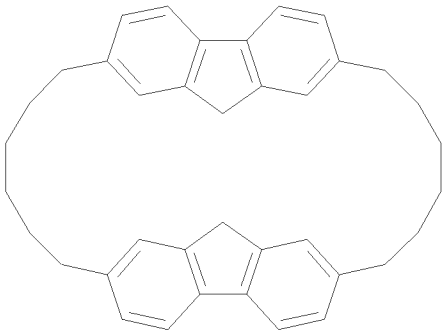
function. In situ modification of Wilkinson's complex by addition of 2-50 equiv (vs. Rh) of a monophosphine (PCy3 > PPh3) or carbene ligand greatly improves the catalyst performances (TON up to 2250 mol phosphonate/mol Rh). An even more efficient system was obtained with 2 equiv (vs. Rh) of the bidentate 1,6-bis(diphenylphosphino)hexane ligand, which affords so far unprecedented high catalytic productivity (TON up to 4,550 mol phosphonate/mol Rh) and activity (TOF up to 250 h-1).

RE.CNT 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2002:477203 CAPLUS
DN 137:185301
TI Synthesis of [n]- and [n.n]Cyclophanes by Using Suzuki-Miyaura Coupling
AU Smith, Beverly B.; Hill, Darron E.; Cropp, T. Ashton; Walsh, Rosa D.; Cartrette, David; Hipps, Sherry; Shachter, Amy M.; Pennington, William T.; Kwochka, William R.
CS Department of Chemistry and Physics, Western Carolina University, Cullowhee, NC, 28723, USA
SO Journal of Organic Chemistry (2002), 67(15), 5333-5337
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 137:185301
GI



I



II

AB [N]metacyclophanes (n = 7-10,14) and [6.6]cyclophanes such as [7]metacyclophane I and [6.6]cyclophane II are prepared in 1-17% yields in one pot by treatment of α,ω-dienes with 9-BBN in THF to give intermediate bisborylalkanes in situ followed by Suzuki-Miyaura coupling with aryl dibromides in the presence of tetrakis(triphenylphosphine) palladium and sodium hydroxide. [N]metacyclophanes (n = 7-10,14) with 10-17 membered rings are prepared in 6-17% yields by reaction of 9-BBN with the dienes H2C:CH(CH2)mCH:CH2 (m = 3,4,5,6,10) followed by palladium-catalyzed coupling with 1,3-dibromobenzene. [6.6]Cyclophanes are prepared by treatment of 1,5-hexadiene with 9-BBN followed by palladium-catalyzed coupling of the intermediate diborylhexane with aryl dibromides such as 1,4-dibromobenzene, 3,5-dibromotoluene, 2,6-dibromopyridine, and 2,7-dibromo-9H-fluorene; the [6]cyclophanes are not obtained. The structures of the [6.6]cyclophanes prepared are determined by X-ray crystallog. anal. II shows a particularly unusual structure in which the fluorene moieties are stacked facing one another with the rings bent inwards toward each another; this type of deformation with a π-π stacking interaction between aromatic rings is rare.

RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2001:861644 CAPLUS
DN 136:169404
TI Selective hydrogenation of diene hydrocarbons to olefins with mono- and bimetallic complexes of transition metals with oligoallene ligands
AU Khar'kova, E. M.; Rozantseva, L. E.; Frolov, V. M.
CS Inst. Neftekhim. Sinteza im. A. V. Topchieva, RAN, Moscow, Russia
SO Neftekhimiya (2001), 41(4), 287-292
CODEN: NEFTAH; ISSN: 0028-2421
PB Nauka
DT Journal
LA Russian
AB Mono-and bimetallic catalysts based on complexes of Pd, Ni, Co, and Fe with allene, 1,1-dimethylallene, and isoprene ligands were prepared They exhibited high activity in hydrogenation of linear and cyclic dienes into olefins. Optimal conditions for synthesis of the catalysts were determined Complexes of Co, Ni. and Fe were inactive is hydrogenation of isoprene. Synergistic effect was observed for bimetallic systems. Isomeric composition of hydrogenation products of isoprene and butadiene was determined

L9 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2001:817562 CAPLUS
DN 136:102715
TI Copolymerization of carbon monoxide with exo-methylenecycloalkane and dienes: synthesis of functionalized aliphatic polyketones
AU Kettunen, Mika; Abu-Surrah, Adnan S.; Repo, Timo; Leskela, Markku
CS Laboratory of Inorganic Chemistry, Department of Chemistry, University of Helsinki, Helsinki, FIN-00014, Finland
SO Polymer International (2001), 50(11), 1223-1227
CODEN: PLYIEI; ISSN: 0959-8103
PB John Wiley & Sons Ltd.
DT Journal
LA English
AB Synthesis of functional aliphatic polyketones was achieved by co- and terpolymn. of the strained exo-methylenecycloalkane, methylenecyclopropane (MCP), and also the dienes 1,5-hexadiene, 1,7-octadiene and 1,6-heptadien-4-ol, with carbon monoxide and propene, using the dicationic palladium(II) phosphine complex [Pd(dppp)(NCCH3)2](BF4)2 (I) (dppp is 1,3-bis(diphenylphosphino)propane) as the catalyst precursor. The resulting MCP/CO copolymer contains both ring-opened and cyclic microstructures. Ring-opening copolymn. yields exo-methylene functionalized polyketone. In contrast to hexadiene /carbon monoxide copolymer (Hx/CO), no ring structures were observed in the alternating octadiene/carbon monoxide (Oc/CO) and heptadien-4-ol/carbon monoxide (Hp-ol/CO) copolymers. The remaining double bonds were left intact to yield polymers with olefinic functionalities in the side chains.
RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2001:85013 CAPLUS
DN 134:280492
TI A novel hydrogen transfer hydroalumination of alkenes with triisobutylaluminum catalyzed by Pd and other late transition metal complexes
AU Gagneur, Sebastien; Makabe, Hidefumi; Negishi, Ei-ichi

CS Department of Chemistry, Purdue University, West Lafayette, IN, 47907-1393, USA
SO Tetrahedron Letters (2001), 42(5), 785-787
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science Ltd.
DT Journal
LA English
OS CASREACT 134:280492
AB H transfer hydroalumination of terminal alkenes and dienes can be achieved with 1.1 equiv of (i-Bu)3Al and catalytic amts. of Cl2Pd(PPh3)2 and other late transition metal complexes containing Co, Rh, Ni, and Pt at ambient temperature in high yields. For example, 85% 1-iododecane was obtained from 1-decene, (i-Bu)3Al and Cl2Pd(PPh3)2 in CH2Cl2 followed by treatment with iodine. When 1,13-tetradecadiene was treated similarly except that the iodine treatment was replaced by O2/NaOH, 26% MeCH:CH(CH2)10CH2OH, 19% (CH2)10(CH2CH2OH)2, and 54% Et(CH2)10CH2CH2OH were obtained. 1,5-Hexadiene underwent a hydrometalation-cyclic carbometalation to give cyclopentylmethanol in 84% after oxidation by oxygen.
RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1999:595053 CAPLUS
DN 131:230266
TI Process and catalyst for selective hydrogenation of dienes and alkynes to olefins
IN Cheung, Tin-Tack Peter; Johnson, Marvin Merrill
PA Phillips Petroleum Company, USA
SO PCT Int. Appl., 48 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 4

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9946041	A1	19990916	WO 1999-US5043	19990308
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6096933	A	20000801	US 1998-39041	19980313
AU 9929007	A	19990927	AU 1999-29007	19990308
EP 1062038	A1	20001227	EP 1999-909915	19990308
R: BE, DE, FR, GB, IT, NL				
PRAI US 1998-39041	A1	19980313		
US 1996-595326	B2	19960201		
US 1997-867872	A2	19970604		
WO 1999-US5043	W	19990308		

AB A supported hydrogenation catalyst composition is disclosed which comprises a palladium component, at least one alkali metal iodide (such as potassium iodide), and an inorg. support material (such as alumina). The palladium component is concentrated in an area within about 150 μm of the exterior surface of the composition
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2008 ACS on STN

AN 1997:552710 CAPLUS
DN 127:234405
OREF 127:45749a,45752a
TI Palladium Migration along Linear Carbon Chains: The Detection of η1-η2-Enyl Intermediates and the Study of Their Rearrangement
AU Albeniz, Ana C.; Espinet, Pablo; Lin, Yong-Shou
CS Departamento de Quimica Inorganica Facultad de Ciencias, Universidad de Valladolid, Valladolid, 47005, Spain
SO Organometallics (1997), 16(19), 4138-4144
CODEN: ORGND7; ISSN: 0276-7333
PB American Chemical Society
DT Journal
LA English
OS CASREACT 127:234405
AB The reactions of [PdPfBr(NCMe)2] (Pf = C6F5) with stoichiometric amts. of 1,5-hexadiene, 1,6-heptadiene, or 1,7-octadiene at low temperature result in the formation of several (η1-η2-enyl) palladium complexes that isomerize sequentially at different temps. depending on the ring size of the palladacycles (Tisom: 7.5- < 6.6- < 5.5-membered). These (η1-η2-enyl) palladium derivs. are intermediates in the Pd-migration process, arrested by coordination of the unattacked double bond. The final products of their isomerization are several isomeric Pf-(η3-allyl) palladium complexes (Pf = C6H5). The major allylic derivative in each case arises from Pd migration to the terminal double bond. Minor amts. of (η3-allyl) palladium complexes formed by double bond switches in the process of Pd migration are also seen, but this occurs only on putative 1,5- or 1,6-diene -hydrido-palladium intermediates. A small amount of cyclic organic derivs. coming from the cyclization of (η1-η2-enyl) palladium intermediates is detected in each case. The use of excess diolefin gives rise to addnl. (η3-allyl) palladium complexes without the Pf group and to the corresponding Pf-substituted linear dienes. These arise via displacement of the Pf dienes by the starting diolefin in a hydrido-palladium intermediate during the Pd-migration process.
RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1995:739456 CAPLUS
DN 123:339180
OREF 123:60875a,60878a
TI Palladium-catalyzed allylic acetoxylation of olefins using hydrogen peroxide as oxidant
AU Jia, Chengguo; Mueller, Paul; Mimoun, Hubert
CS Department of Organic Chemistry, University of Geneva, CH 1211, Geneva, Switz.
SO Journal of Molecular Catalysis A: Chemical (1995), 101(2), 127-36
CODEN: JMCCF2; ISSN: 1381-1169
PB Elsevier
DT Journal
LA English
AB A new and efficient system for the allylic acetoxylation of olefins has been developed, which consists of a palladium (II) catalyst and hydrogen peroxide as oxidant in acetic acid. The acetoxylation reaction competes with the epoxidn. by the peracetic acid generated in situ in this system. Increase of the concentration of palladium catalyst and addition of benzoquinone (BQ), enhance the acetoxylation considerably. For the Pd(OAc)2-BQ-H2O2 system, more than 1000 turnover number could be achieved in the acetoxylation of cyclohexene. Most internal and cyclic olefins tested gave the corresponding allylic acetates in fair to high yields. 1,3-Cyclohexadiene gave 1,4-diacetoxy-cyclohex-2-ene while 1,5-

hexadiene afforded 3-acetoxy-methylenecyclopentane; 1,7-octadiene produced 1-octen-7-one and octan-2,7-dione. Terminal olefins gave Me ketones in good yield with high turnover number both in the presence and absence of BQ. Possible mechanisms and involvement of palladium peroxidic species in both the catalytic acetoxylation and ketonization of olefins are discussed.

L9 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1995:397675 CAPLUS
DN 122:214238
OREF 122:39175a,39178a
TI Configurational Assignment of Acyclic (π-Allyl) palladium Complexes: Analytical Application of Chelating Nitrogen Ligands
AU Gogoll, Adolf; Gomes, Joao; Bergkvist, Magnus; Grennberg, Helena
CS Department of Organic Chemistry, University of Uppsala, Uppsala, 751 21, Swed.
SO Organometallics (1995), 14(3), 1354-64
CODEN: ORGND7; ISSN: 0276-7333
PB American Chemical Society
DT Journal
LA English
AB A method for assignment of the relative stereochem. in acyclic (π-allyl) palladium complexes by 1H NMR H-H coupling consts. has been developed. It is based on the introduction of nitrogen chelating ligands of the bipyridyl type into the complexes. The anal. suitability of several other types of nitrogen chelating ligands has also been investigated. A model for rationalization of the observed relation between stereochem. and spectral parameters is proposed. Introduction of the chelating ligand also affects the syn,anti equilibrium of the complexes. Isomer ratios depend upon the relative stereochem. of the side chain as well as on the chelating ligand.

L9 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1991:491646 CAPLUS
DN 115:91646
OREF 115:15751a,15754a
TI Preparation of (1-alkene)-(1,3-alkadiene) adducts
IN Ehlers, Jens; tom Dieck, Heindirk
PA Hoechst A.-G., Germany
SO Ger. Offen., 12 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 3906434	A1	19900906	DE 1989-3906434	19890301
PRAI DE 1989-3906434		19890301		

OS CASREACT 115:91646; MARPAT 115:91646
AB R1CH:CH2 (R1 = H, alkyl, ω-alkenyl, alkoxy, aryl) are added to R2CH:CR3CR4:CR5R6 (R2-R6 = H, alkyl, alkenyl, aryl) in the presence of a catalyst system comprising: 1) an Fe, Ni, Pd, or Cr salt; 2) a Grignard reagent, a Li, or a Mg alkyl; and 3) R7N:CR8CR9:NR10 (R7,R10 = alkyl, aryl; R8,R9 = H, alkyl; R8R9 = atoms to complete a carbocyclic ring; R9R10 = atoms to complete a heterocyclic ring). Thus, butadiene, ethene, Mg-butadiene·2THF, FeCl2, and (PhN:CMe)2 were shaken in a glass ampul at room temperature to give, after 48 h, 97% a mixture comprising 21% (Z)-1,4-hexadiene and 79% (E,Z)-2,4-hexadiene.

L9 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1991:448387 CAPLUS
DN 115:48387

OREF 115:8389a,8392a
TI Palladium-catalyzed coupling of aryl iodides, nonconjugated dienes and carbon nucleophiles by palladium migration
AU Larock, Richard C.; Lu, Yong De; Bain, Anjali C.; Russell, Charles E.
CS Dep. Chem., Iowa State Univ., Ames, IA, 50011, USA
SO Journal of Organic Chemistry (1991), 56(15), 4589-90
CODEN: JOCEAH; ISSN: 0022-3263
DT Journal
LA English
OS CASREACT 115:48387
AB Aryl iodides, nonconjugated dienes, and carbon nucleophiles react in the presence of a palladium catalyst to give good yields of coupled products apparently formed by arylpalladium generation and addition to the less substituted end of the diene, palladium migration down the carbon chain to form a π-allylpalladium intermediate, and carbanion displacement of the palladium moiety. Coupling of PhI with H2C:CHCH2CH2CH:CH2 and H2C(CO2Et)2 gave (E)-Ph(CH2)3CH:CHCH2CH(CO2Et)2.

L9 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1979:142652 CAPLUS
DN 90:142652
OREF 90:22561a,22564a
TI Silyhydrocarbyl phosphine transition metal complexes
IN Oswald, Alexis A.; Murrell, Lawrence L.
PA Exxon Research and Engineering Co., USA
SO U.S., 18 pp. Cont.-in-part of U.S. 4,083,803.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4134906	A	19790116	US 1977-829898	19770901
	US 3907852	A	19750923	US 1972-265507	19720623
	US 4083803	A	19780411	US 1975-610628	19750905
PRAI	US 1972-265507	A2	19720623		
	US 1975-610628	A2	19750905		

AB Heterogeneous silylhydrocarbyl phosphine transition metal complex catalysts and intermediates therefore were prepared by the selective monoaddn. of silane having Cl, alkoxy, or acyloxy groups to an α,ω- diene, followed by the addition of a phosphine to the resulting ω-alkenyl silanes to form the corresponding silylalky phosphines, which were then covalently anchored as such or in the form of their transition metal complexes via condensation of their reactive silane substituents with hydroxy groups of silica and metal oxides, optionally followed by complexing the free phosphine groups of anchored silylalkyl phosphines with transition metal compds. The synthesis of numerous silanes, silane-phosphine compds., and transition metal complexes is given. Most of the catalysts are Rh-containing complexes, but other metal complexes containing Pd and Co were prepared

L9 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1975:478138 CAPLUS
DN 83:78138
OREF 83:12267a,12270a
TI Reaction of open-chain unconjugated dienes with palladium acetate. Dependence of the products on disposition of the two double bonds
AU Adachi, Nobuo; Kikukawa, Kiyoshi; Takagi, Makoto; Matsuda, Tsutomu
CS Fac. Eng., Kyushu Univ., Fukuoka, Japan
SO Bulletin of the Chemical Society of Japan (1975), 48(2), 521-5

CODEN: BCSJA8; ISSN: 0009-2673
DT Journal
LA English
AB The reaction of open chain unconjugated dienes with Pd(OAc)2 in HOAc was examined particularly for the behavior of the two double bonds in the course of the acetoxylation. 1,5-Hexadiene produced 3-acetoxymethylenecyclopentane (64%), but 2,6-octadiene gave open-chain acetoxylated products: 3-acetoxy-1,6-octadiene (46%) and 7-acetoxy-2,5-octadiene (47%). The reactions of 1,6-heptadiene and diallyl ether gave cis- and trans-1-acetoxy-1,6-heptadiene (63%) and γ-acetoxyallyl allyl ethers (84%), resp. No participation of the second double bond was observed with 1,7-octadiene. The formation of a π,σ-Pd species possessing a stable pseudo-six membered ring was discussed.

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